Spindle Drawing: Shaft Proportions and Whorl Placement

Original tasks 1, 2 / independent work

Task 1

A spindle drawing uses shaft length 15 cm, whorl center at 0.40 SL from the bottom tip, and whorl diameter 0.30 SL. Compute the center height, diameter, and radius.

Task 2

You draw a spindle with shaft length 8 cm and whorl diameter 2 cm. What is the whorl diameter fraction, and what radius should you mark on each side of the shaft?

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Original tasks 3, 4 / independent work

Task 3

A drawing has shaft length 10 cm and whorl center 2.5 cm from the bottom tip. A second drawing has shaft length 14 cm. What center height preserves the same placement fraction?

Task 4

A student draws a whorl of diameter 3 cm on a shaft of length 12 cm, but places its center 6 cm from the bottom tip. State the placement fraction and diameter fraction, and explain one adjustment that would make the spindle look more balanced using the lesson convention.